

- b. The System provides user-selectable Views containing multiple video streams, with View Layouts.
- c. The System provides View configuration by drag and drop assignment of Views into the Sequence Layout.
- d. The System provides video walls by pushing multiple views to multiple HD displays via multiple decoders/PC (one unit per HD display) .



Video Wall in Command Center

- e. The System provides video display Sequences, in which two or more Views are displayed in user-configurable order, with individual sequence durations.

7.1.16 Audio Features

NextProtect integration with state of the art Audio Analytics

- ❖ The Gateway has the ability to listen for certain sounds through microphone inputs on certain IP Cameras such as Axis.
- ❖ Adds ears to your system
- ❖ Provides more advanced features than any other sound analytics framework used on other cameras or DVRs on the market. Not just audio level detection.
- ❖ Extends system detection capability
- ❖ Adds ability to detect a range of sound profiles indicative of specific security incidents.
- ❖ Detection of sound 10-50 meters from source using a camera's built in microphones or external microphone, depending on sound type and location



❖ These sounds include

» Aggression

- Provides auto-camera selection and recording for aggression against front-line staff or the public/visitors
- Recognizes aggressive speech and shouting for speakers.
- Up to 10 meters from source.
- 80.6% detection rate for > 10 dB SNR



» Car Alarms

- Provides an operational alert for an attempted car theft or break-in
- Operates well in full motion environments
- Typical application for car crime applications in:
 - Car lots (ARCs)
 - Transportation hubs (train-station, sports stadium, airport etc.)
 - Car parks
- Seven standard types of car alarms used by major car manufacturers in Europe and North America.
- Up to 50 meters from source.
- 96.6% detection rate for > 30 dB SNR (typical SNR for an open city car park with normal ambient traffic noise).



Audio Analytics recognize aggressive speech and shouting



Detects sounds of attempted car theft or break-in

» Glass Breakage

- Provides an operational alert of an intrusion attempt while intruder is still outside of the protected area
- Operates well in full motion environments
- Standard window glass being broken
 - Plate: 2.4 mm – 10 mm
 - Tempered: 3.2 mm – 10 mm
 - Wired: 6 mm
 - Laminated: 4.4 mm - 10.8 mm
- Minimum glass size, all types of glass 300 x 300 mm
- Up to 10 meters from source.
- 96.0% detection rate for > 60 dB SNR (typical SNR for an intrusion detection in a retail premises in the center of a city).



Breaking glass analytics provide operational alert while intruder is still outside protected area.



» **Gunshots**

- Provides an operational alert of potential threat to life or safety
- Typical application for gunshot detection applications in:
 - Municipalities/cities
 - Healthcare
 - University Campus
- Characterised by the muzzle blast associated with a range of weapons typically used in civilian gun crimes in the Americas, Europe, Middle East and Australasia. Doesn't work with silenced weapons. The types of weapons are:
 -
 - Hand guns (including 9mm automatics and revolvers with and without muzzle diffusers).
 - Shot guns (including 20-gauge, .410 and 12 Bore).
 - Rifles (.22 and 7.62 mm bolt action).
 - Automatic rifles (including AK-47, AR-15 and Uzi submachine gun).
 - 100-200 meters from source
 - 89.5% for > 40 dB SNR (typical for noisy city centre)



Provides an operational alert or potential threat to life when a gunshot is detected

❖ **NLSS systems support audio in one of four ways (must support 16 kHz sample rate)**

- » Built-in Microphone (e.g. Axis M0154)
- » Line or Mic Level input on the camera
- » Line or Mic Level input on the encoder
- » Line or Mic Level input on the NVR/DVR

❖ **Built in IP Camera Microphones (typically indoors)**

- » Axis Series with microphone M10xx, P13xx, P33xx, M50xx
- » Other manufactures: Bosch, Vivotek, D-link etc.
- » Range of 16 kHz audio codecs (AAC (LC), L16, G.722)
- » Typical configuration (Microphone input & output level)

❖ **External Microphones (Cameras, encoders and VMS/DVR) (indoor and out)**

- » Security microphone manufactures
- » Frequency response required: 100 Hz - 8 kHz +/- 6dB or better



7.1.17 Storage Features

1. The System provides internal storage of video, audio, events, and configuration data
2. The System provides manual or automatic selection of storage target on a per camera basis
3. The System provides direct Attached Storage (DAS)
4. The System provides external USB storage
5. The System provides automatic availability of USB storage added to the system
6. The System provides network Attached Storage (NAS)
7. The System provides external iSCSI storage
8. The System provides external NFS storage
9. The System provides automatic failover, with notification, from one storage volume to another if a storage volume becomes unavailable for continued data writing
10. The System provides minimum and maximum video retention targets in units of days
11. The System provides automatic grooming (deleting) of video data when system storage limits and/or video retention targets are met
12. The System provides per-camera configuration of grooming settings

Storage (1 - 3 of 3) page 1 / 1

| Disc Name | Disc Type | Mount Point | Connection State | Total Space (GB) | Free Space (GB) | Used Space (GB) |
|----------------------|-----------|-------------|------------------|------------------|-----------------|-----------------|
| internal_10.11.28.53 | Internal | /dev/sda7 | Connected | 616.2 | 51.8 | 533.6 |
| lomega_iscsi | iSCSI | 10.11.33.12 | Connected | 5114.9 | 389.1 | 4469.8 |
| NLSSMedia2nd | Internal | /dev/sdb | Connected | 714.6 | 54.0 | 624.9 |

Storage Details

Disc Name: lomega_iscsi

Attached To Gateway: NLSS Remote Demo Gateway

Disc Type: iSCSI

iSCSI Initiator Name: iqn.1993-08.org.debian:01:a8e0169f96c5

Target IP Address: 10.11.33.12

Node: iqn.1992-08.com.emulex:01:nlss-pc12-NLSS

User Name:

Password:

LUN: LUN0

Free (GB): 389.1
Used (GB): 4469.8
Other (GB): 256.0

pete@nlss.com
NLSS Remote Demo Gateway
RMS - version: 3.1.1 (31129)

SITES OPERATIONS CONFIGURATION EVENTS FULL SCREEN LOGOFF

User Login
brent@nlss.com mobile
Sun Dec 2 2012
12:06:24 PM GMT - 8

Storage Configuration Screen



Cameras (1 - 21 of 21) page 1 / 1

| Device Name | Device Model | IP Address | PTZ | MAC Address | Connection State | Admin State |
|-----------------------------|----------------|-------------|-----|-------------------|------------------|-------------|
| Hallway Face Grab | AXIS-P1346 | 10.11.28.91 | No | 00:40:8c:a2:10:0b | Connected | In Service |
| Main Entrance | Sony-SNC-DH180 | 10.11.28.92 | No | 54:42:49:ab:16:6c | Connected | In Service |
| Mobile-SN: Android Linux cn | Mobile | 0.0.0.0 | No | 00:11:22:33:44:55 | Connected | In Service |
| Parking Lot PTZ | AXIS-Q6034-E | 10.11.28.96 | Yes | 00:40:8c:af:16:74 | Connected | In Service |
| Scallop 180 | RTSP | 10.11.28.94 | No | 00:00:00:00:00:00 | Connected | In Service |
| Sony Exterior | RTSP | 10.11.38.93 | No | 00:00:00:00:00:00 | Connected | In Service |

Camera Details

Stream Settings

| Stream | Recording Schedule |
|----------|--------------------|
| Stream 0 | Always |

Camera Settings

Record To Volume: System selected

Min Retention (Days): 1

Max Retention (Days): 30

Cancel Save

pet@niss.com
NLSS Remote Demo Gateway
RMS - version: 3.1.1 (31129)

SITES OPERATIONS CONFIGURATION EVENTS FULL SCREEN LOGOFF

User Login
brent@niss.com mobile
Sun Dec 2 2012
12:06:24 PM GMT - 8

Video Retention by Camera Screen

7.1.18 Events

- The system provides user definable Event Severities (priorities).
- The system provides the user-configurable automatic actions for specific events but not limited to those listed in Section 7.1.18.b of Addendum 4.
- The system provides multiple automatic actions for specific events
- The system provides all of the events listed in Section 7.1.18.d of Addendum 4.

Action (1 - 17 of 17) page 1 / 1

| Action Name | Action Type |
|---------------------------|-------------|
| After Hours Alert | PlayAudio |
| Audio Announcement | PlayAudio |
| door_14_action | ACOutputOn |
| Email Brent on Face Match | EmailSend |
| Email Pete | EmailSend |
| Get Away Noise | PlayAudio |

Action Details

Action Name: After Hours Alert

Action Type: PlayAudio

Stream: Main Entrance Stream 0 - VIDEO/AUC

Camera (1 - 10 of 16) page 1 / 2

102 Lobby
103 Parking Lot
103 Parking Lot 2
Axis Northwest Corner
Axis Thermal
Back PTZ
Hallway 720p
Hallway Face Grab

Audio Clip: (1 - 10 of 30) page 1 / 3

NLSS Logo Video
Severity Emergency
Severity Critical
Severity Error
Severity Warning
Severity Notice
Severity Informational
Severity Debug

Cancel Save

pet@niss.com
NLSS Remote Demo Gateway
RMS - version: 3.1.1 (31129)

SITES OPERATIONS CONFIGURATION EVENTS FULL SCREEN LOGOFF

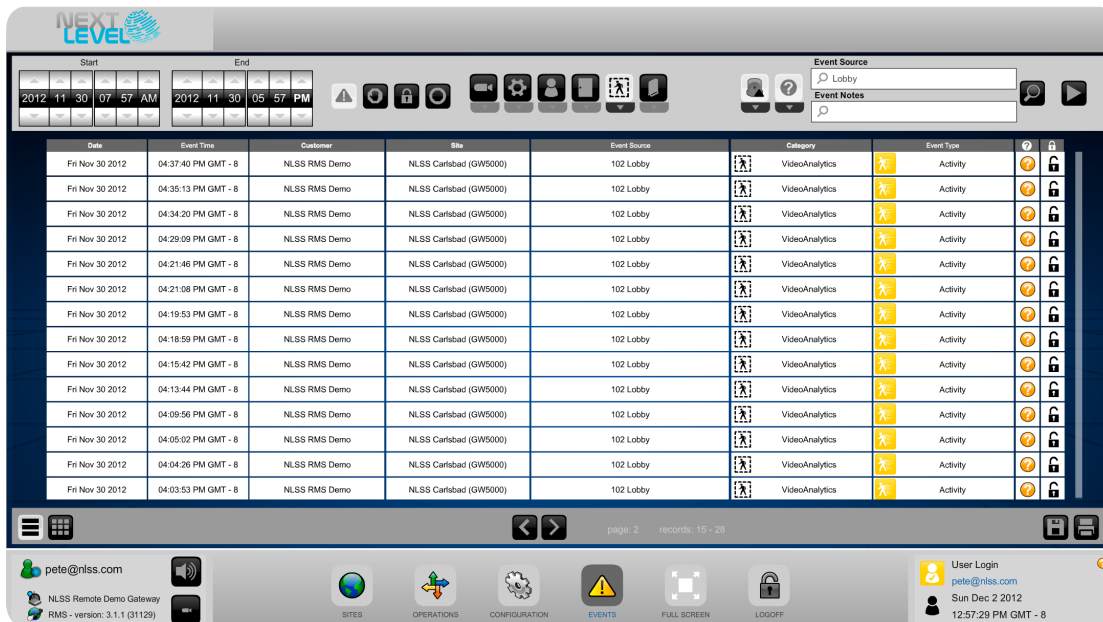
User Login
brent@niss.com mobile
Sun Dec 2 2012
12:06:24 PM GMT - 8



- e. The System provides Incident Management.



- f. The System supports and is not limited to the 53 Events listed in Section 7.1.18.f of Addendum 4.
- g. The System provides a flexible event and action system with configurable logic as defined in Section 7.1.18.5.1 of Addendum 4.
- h. The System provides the filtering of events being displayed by Event Category and Event Subtype.



- i. The System provides an Event Log view of the system events from the web browser, filterable by Event Category and Severity.

